160

Pin. 402	Modem 150	LAN 152	ISDN 154
1.	Unused	TD+	PSo3
2.	Unused	TD-	PSo3
3.	Unused	RD+	TD+
4.	Tip	Unused	RD+
5.	Ring	Unused	RD-
6.	Unused	RD-	TD-
7.	Unused	Unused	PSi2
8.	Unused	Unused	PSi2

Fig. 1

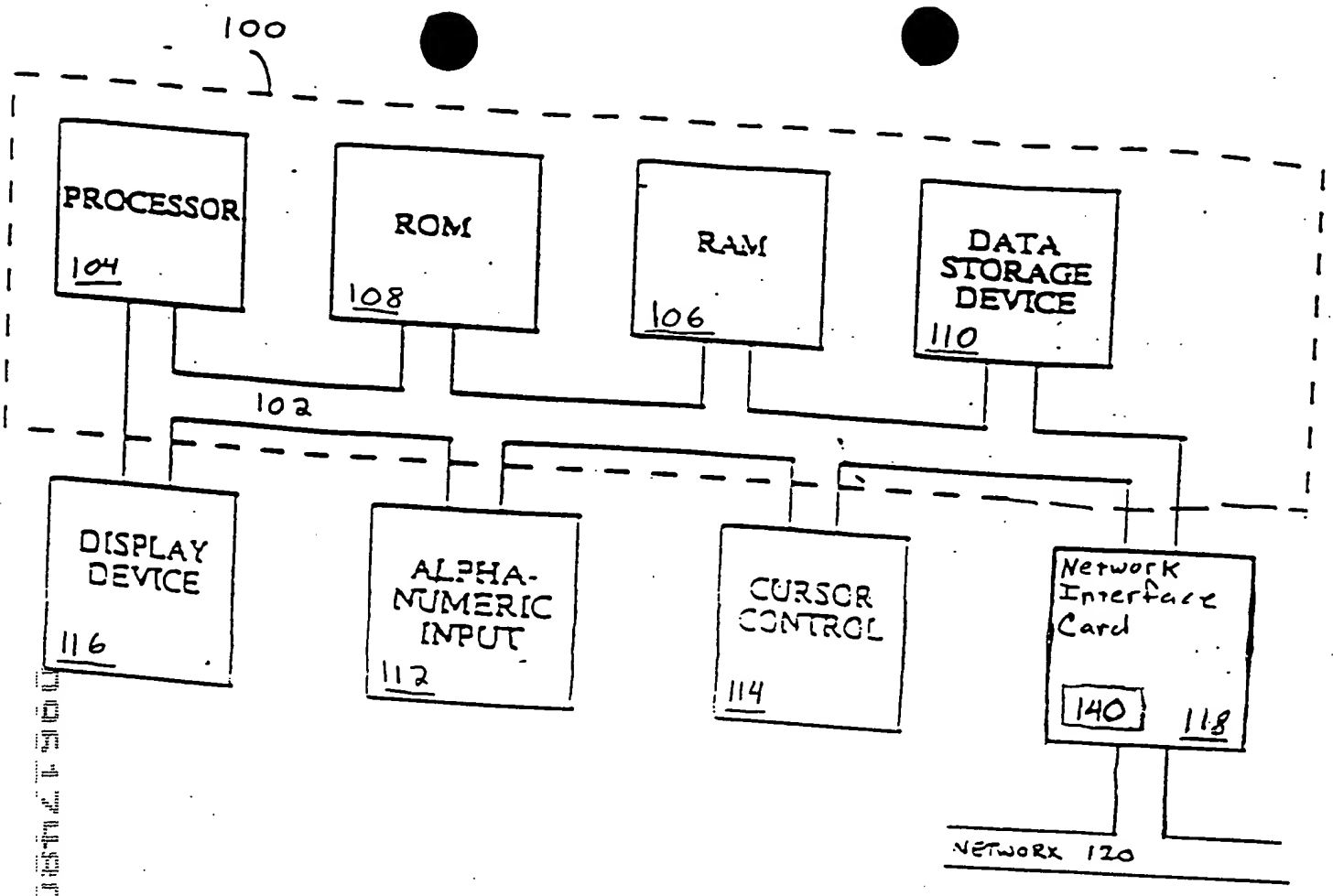
100
PROCESSOR
104
ROM
108
RAM
106
DATA STORAGE DEVICE
110
102
DISPLAY DEVICE
116
ALPHA-NUMERIC INPUT
112
CURSOR CONTROL
114
Network Interface Card
140
118
NETWORK 120

FIGURE 2

Figure 3

No. 5505
Engineer's Computation Pad

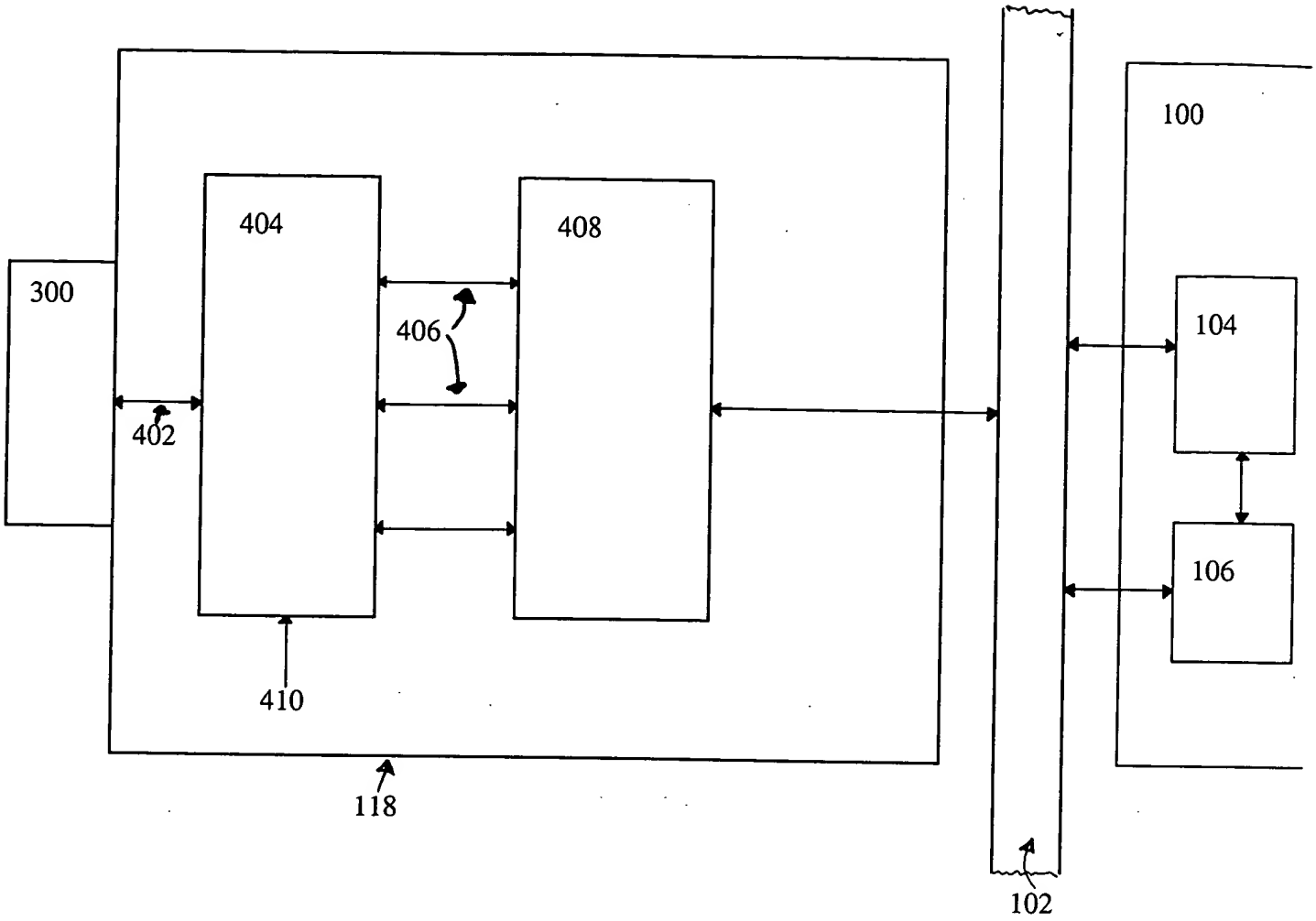

FIGURE 4

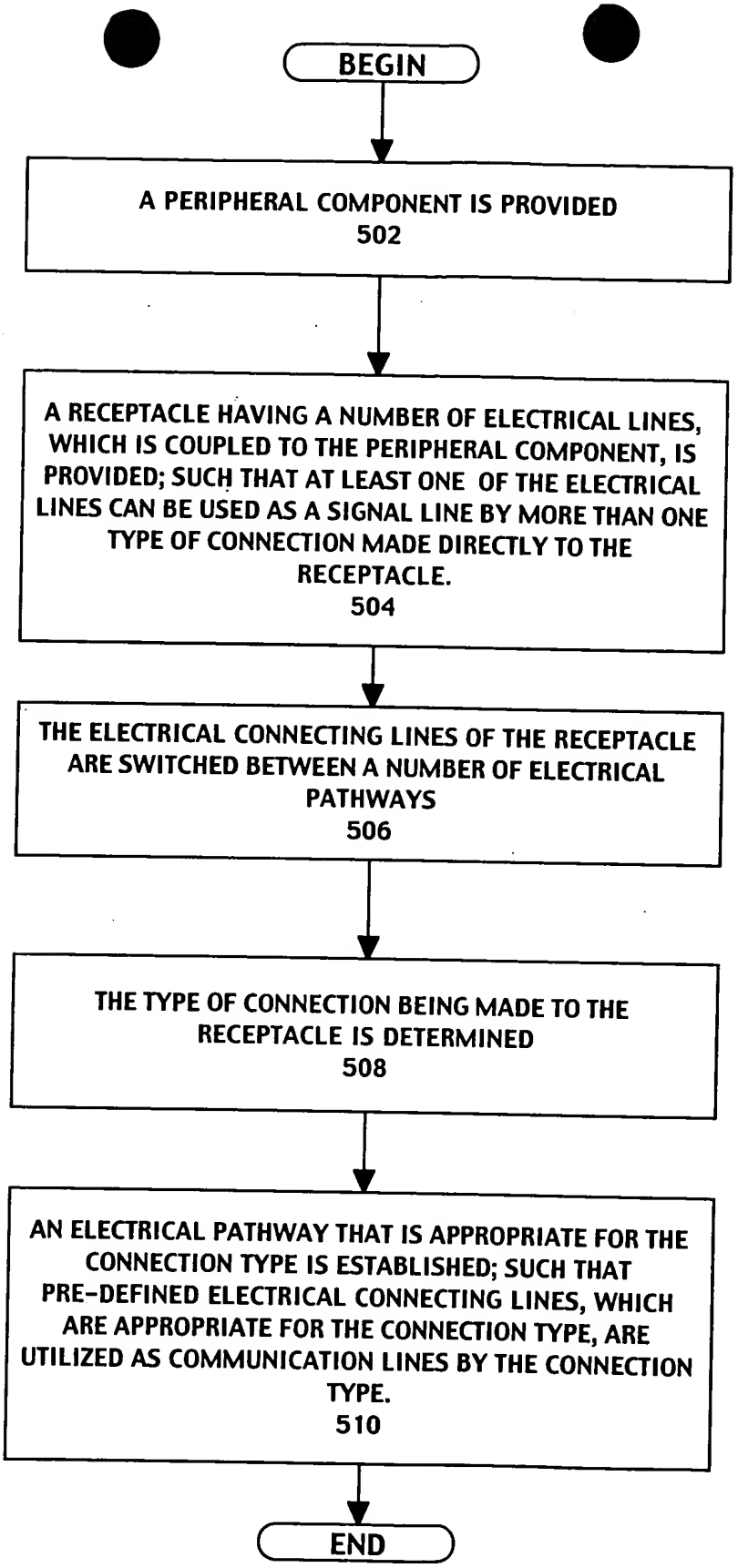
BEGIN
A PERIPHERAL COMPONENT IS PROVIDED
502
A RECEPTACLE HAVING A NUMBER OF ELECTRICAL LINES, WHICH IS COUPLED TO THE PERIPHERAL COMPONENT, IS PROVIDED; SUCH THAT AT LEAST ONE OF THE ELECTRICAL LINES CAN BE USED AS A SIGNAL LINE BY MORE THAN ONE TYPE OF CONNECTION MADE DIRECTLY TO THE RECEPTACLE.
504
THE ELECTRICAL CONNECTING LINES OF THE RECEPTACLE ARE SWITCHED BETWEEN A NUMBER OF ELECTRICAL PATHWAYS
506
THE TYPE OF CONNECTION BEING MADE TO THE RECEPTACLE IS DETERMINED
508
AN ELECTRICAL PATHWAY THAT IS APPROPRIATE FOR THE CONNECTION TYPE IS ESTABLISHED; SUCH THAT PRE-DEFINED ELECTRICAL CONNECTING LINES, WHICH ARE APPROPRIATE FOR THE CONNECTION TYPE, ARE UTILIZED AS COMMUNICATION LINES BY THE CONNECTION TYPE.
510
END

FIGURE 5

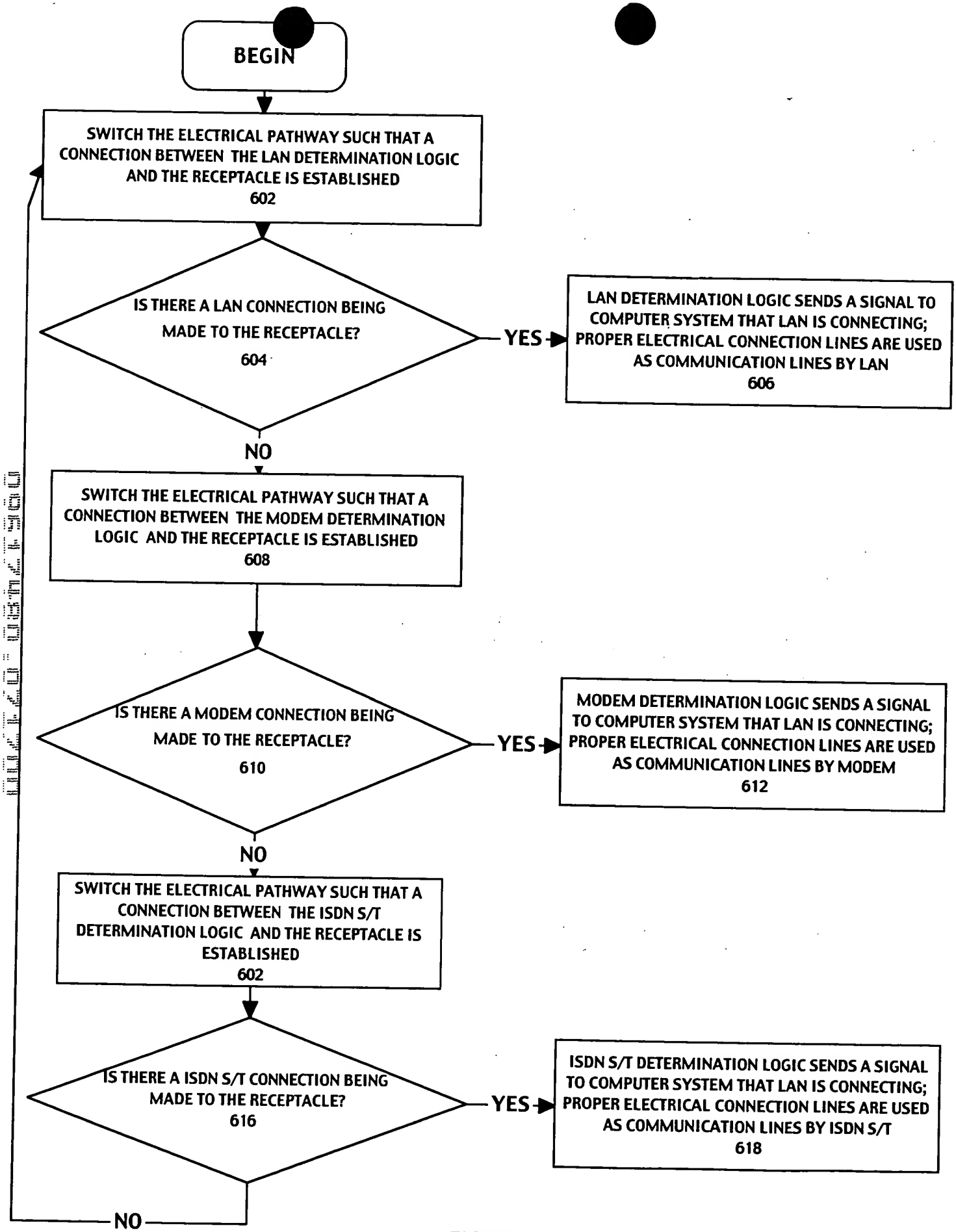
BEGIN
SWITCH THE ELECTRICAL PATHWAY SUCH THAT A CONNECTION BETWEEN THE LAN DETERMINATION LOGIC AND THE RECEPTACLE IS ESTABLISHED
602
IS THERE A LAN CONNECTION BEING MADE TO THE RECEPTACLE?
604
YES
LAN DETERMINATION LOGIC SENDS A SIGNAL TO COMPUTER SYSTEM THAT LAN IS CONNECTING; PROPER ELECTRICAL CONNECTION LINES ARE USED AS COMMUNICATION LINES BY LAN
606
NO
SWITCH THE ELECTRICAL PATHWAY SUCH THAT A CONNECTION BETWEEN THE MODEM DETERMINATION LOGIC AND THE RECEPTACLE IS ESTABLISHED
608
IS THERE A MODEM CONNECTION BEING MADE TO THE RECEPTACLE?
610
YES
MODEM DETERMINATION LOGIC SENDS A SIGNAL TO COMPUTER SYSTEM THAT LAN IS CONNECTING; PROPER ELECTRICAL CONNECTION LINES ARE USED AS COMMUNICATION LINES BY MODEM
612
NO
SWITCH THE ELECTRICAL PATHWAY SUCH THAT A CONNECTION BETWEEN THE ISDN S/T DETERMINATION LOGIC AND THE RECEPTACLE IS ESTABLISHED
602
IS THERE A ISDN S/T CONNECTION BEING MADE TO THE RECEPTACLE?
616
YES
ISDN S/T DETERMINATION LOGIC SENDS A SIGNAL TO COMPUTER SYSTEM THAT LAN IS CONNECTING; PROPER ELECTRICAL CONNECTION LINES ARE USED AS COMMUNICATION LINES BY ISDN S/T
618
NO

FIGURE 6

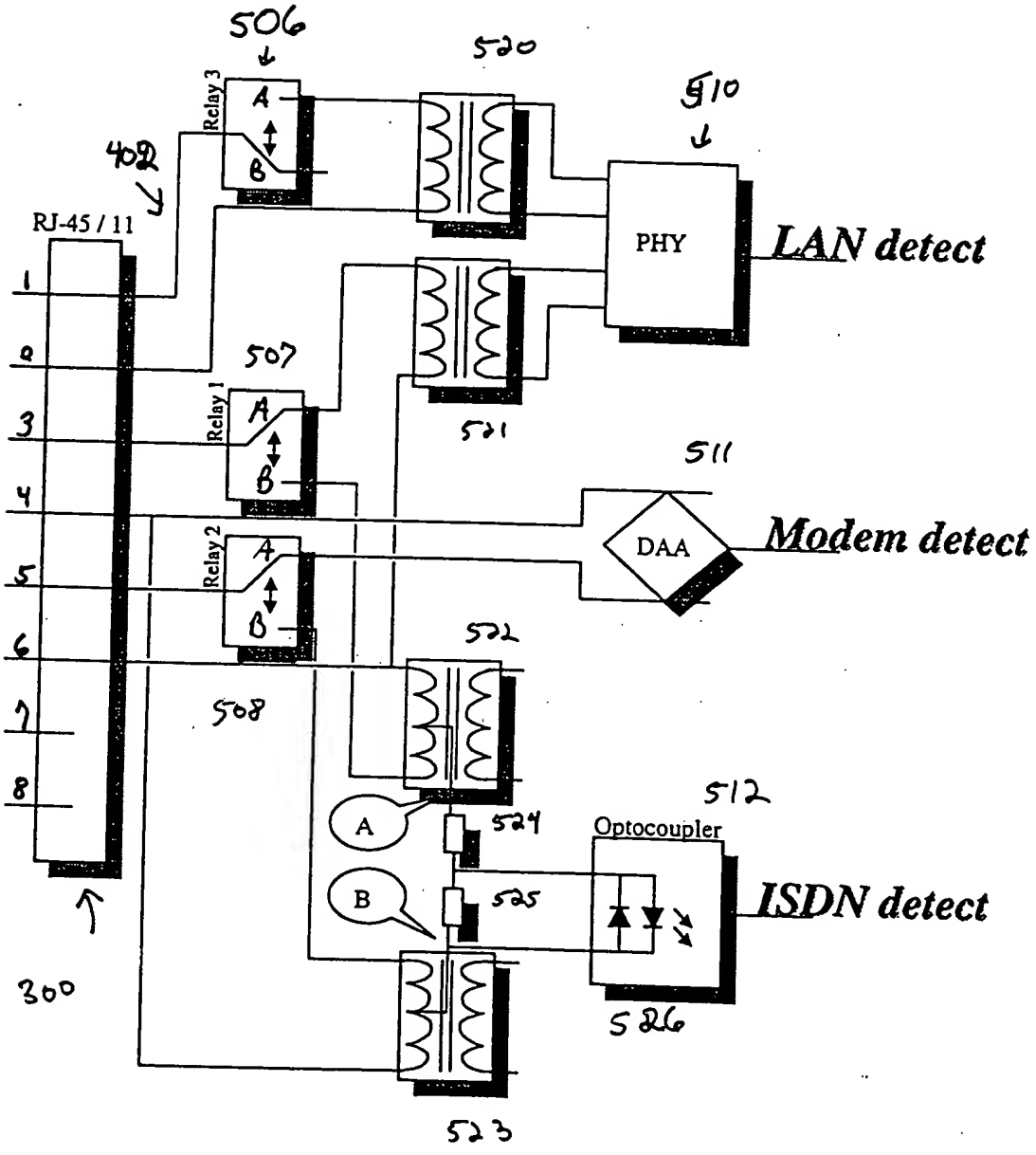
506
520
510
402
Relay 3
A
B
RJ-45 / 11
1
2
3
4
5
6
7
8
PHY
LAN detect
507
Relay 1
521
511
DAA
Modem detect
Relay 2
522
508
512
524
Optocoupler
525
ISDN detect
526
523
300

Figure 7

	LAN 152	Modem 150	ISDN 154
Relay 507	A	-	B
Relay 508	-	A	B
Relay 508	A	-	-

FIGURE 8